

Work Order ID 139975

139975

December 16, 2015 8:52:46 AM

Page 1

Item ID: 646.4001 Accept *N900040100* Setup Start *NS1*

Revision ID: Stop *NS2*

Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015 Start Qty: 1.00 *1*

Required Date: 1/8/2016 Req'd Qty: 1.00 *1*

Reference: Cust Item ID: Customer:

Approvals: Process Plan: *SH* Date: *20151216* Tooling: Date:

QC: Date: SPC (Y/N): Date:

Run Start *NR1*

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.4000	B								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

30124266
30124266

DAS
27
9-89

12/11/15

JAN 08 2016

DAS
6
9-89

ME

16-1-15

DAS
27
9-89

16/1/15

Work Order ID 139975

139975

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Item ID: 646.4001 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: AS350 Cable Cutter System
 Start Date: 12/16/2015 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 1/8/2016 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00				27 9-89			
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4001 Location: <u>P6101</u>								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

Sold

16/1/15

MLC JAN 15 2016

MLC JAN 15 2016

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Work Order ID: 139975

139975

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM

IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

646.3301		Manufactured	No				Each	7.0000		1			
----------	--	--------------	----	--	--	--	------	--------	--	---	--	--	--

646 3301

Upper Cutter Assy

DAS
27
9-89

Location

Loc Qty

Loc Code

cck018

7

136156

2

136497

5

646.3001		Manufactured	No				Each	0.0000		1			
----------	--	--------------	----	--	--	--	------	--------	--	---	--	--	--

646 3001

Lower Cutter Assy

DAS
27
9-89

646.2910		Manufactured	No				Each	8.0000		1			
----------	--	--------------	----	--	--	--	------	--------	--	---	--	--	--

646 2910

Deflector

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK050

8

136136

8

646.3810		Manufactured	No				Each	10.0000		2			
----------	--	--------------	----	--	--	--	------	---------	--	---	--	--	--

646 3810

Bracket

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK106

10

136186

10

JAN 15 2016

pu ECN 16-503

646.2463-CA78 x 5 B 133998

DAS
6
9-89

646.9440 x 1 B

Ship without at at
and the shims
su attached
email
16-1-26

646.9440 x 1
ship at a per
later date Carlin
Jackson
16-1-15

DAS
6
9-89
JAN 08 2016

mr

137329

DAS
6
9-89

mr

DAS
6
9-89

mr

DAS
6
9-89

JAN 11 2016

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Work Order ID: 139975

139975

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3510	Manufactured	No	Each	6.0000	1			DAS 6 9-89
646 3510						**		
Strut								
<i>BAS 27 9-89</i>								
	<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>				
	cck104		6					
	136114		6					
646.3511	Manufactured	No	Each	5.0000	1			DAS 6 9-89
646 3511						**		
Strut								
<i>BAS 27 9-89</i>								
	<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>				
	cck104		5					
	136169		5					
647.0112	Manufactured	No	Each	91.0000	2			DAS 6 9-89
647 0112						**		
Strut Bracket								
<i>BAS 27 9-89</i>								
	<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>				
	CCK007		91					
	M130388		91					
647.7703	Manufactured	No	Each	8.0000	2			DAS 6 9-89
647 7703						**		
Strut Assembly								
<i>BAS 27 9-89</i>								
	<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>				
	CCK114		8					
	136459		4					
	138238		4					

646.4400 x1
can ship without shim
per att. email
MF 16-1-15

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Work Order ID: 139975

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Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

Each

1,657.000

NAS1149F0332P

Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

ST262

1657

m133709

1657

Each

1,830.000

MS21042L3

Purchased

No

MS21042L3

Nut

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

188

m133790

188

GA

279

m133790

279

ST304

1363

m133790

1363

Each

8.0000

646.3110

Manufactured

No

646 3110

Channel

DAS
27
9-89

Location

Loc Qty

Loc Code

cck020

8

136153

2

136492

6

Each

15.0000

646.3710

Manufactured

No

646 3710

Doubler

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK002

15

127550

15

ECN NO-503

138

61

1

1

DAS
6
9-89

DAS
6
9-89

DAS
6
9-89

DAS
6
9-89

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Work Order ID: 139975

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

139975

646 4001

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-4A Purchased No

Each 178.0000 10

AN3-4A

Bolt

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

100

m133694

100

ST350

78

m129682

13

m133234

65

DAS
6
9-89

CR3213-5-3

Purchased No

Each 116.0000

CR3213-5-3

Cherry Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

ST319

116

m130388

16

m132763

100

DAS
6
9-89

MS20470AD5-5.5

Purchased No

Each 127.0000

MS20470AD5-5 5

Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

ST309

127

123425

127

DAS
6
9-89

646.3711

Manufactured No

Each 26.0000

646 3711

Clip

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

26

120626

26

DAS
6
9-89

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Work Order ID: 139975

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Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3610	Manufactured	No	Each	5.0000	1		
646 3610						**	DAS
Filler							6
							9-89
BAS							
27							
9-89							
	<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>			
	cck104		5				
	136278		5				
646.3714	Manufactured	No	Each	8.0000	1		
646 3714						**	DAS
Gusset							6
							9-89
BAS							
27							
9-89							
	<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>			
	cck105		8				
	120632		8				
MS20470AD5-6	Purchased	No	Each	1,008.000	8		
MS20470AD5-6						**	DAS
RIVET							6
							9-89
BAS							
27							
9-89							
	<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>			
	CCK004		890				
	124089		890				
	ST309		118				
	105433		118				
646.3812	Manufactured	No	Each	11.0000	2		
646 3812						**	DAS
Gusset Bracket							6
							9-89
BAS							
27							
9-89							
	<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>			
	CCK106		11				
	136113		6				
	138194		5				

DAS
6
9-89 JAN 11 2016

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Work Order ID: 139975

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Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-3A Purchased No

Each 300.0000 4

AN3-3A

Bolt

BAS
27
9-89

Location

Loc Qty

Loc Code

over003

104

m131624

104

ST350

196

m133483

96

m133833

100

646.3813 Manufactured No

Each 11.0000

646.3813

Strut Bracket

BAS
27
9-89

Location

Loc Qty

Loc Code

CCK106

11

127453

1

132541

5

138267

5

MS20470AD5-7 Purchased No

Each 524.0000

MS20470AD5-7

Rivet

BAS
27
9-89

Location

Loc Qty

Loc Code

ST309

524

123425

524

DAS
6
9-89

MF

DAS
6
9-89

MF

DAS
6
9-89

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MF

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Work Order ID: 139975

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Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

MS21047-3

Purchased

No

Each

155.0000

18

MS21047-3

Nut Plate

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST301

147

m133234

47

m133577

50

m133790

50

ST303

8

m130388

8

Each

398.0000

36

DAS
6
9-89

CCR264SS3-02

Purchased

No

CCR264SS3-02

Rivet, Cherry

DAS
27
9-89

Location

Loc Qty

Loc Code

ST321

398

M132317

4

M133134

2

M133316

192

M133790

200

Each

161.0000

2

DAS
6
9-89

AN3-5A

Purchased

No

AN3-5A

Bolt

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

30

m133686

30

ST350

131

m133686

131

JAN 11 2016
mf

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Work Order ID: 139975

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Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3715 Manufactured No

Each 5.0000

2

646 3715

Strut Doubler

**

B139892

DAS

6

9-89

Location

Loc Qty

Loc Code

cck105

5

135537

5

Each

128.0000

6

**

MS27039-1-12

Purchased No

MS27039-1-12

Screw

Location

Loc Qty

Loc Code

over006

100

m133483

100

ST285

28

m133031

28

Each

12.0000

1

**

BAS

27

9-89

646.3716

646 3716

Gauge Bracket

DAS

6

9-89

DAS

6

9-89

Location

Loc Qty

Loc Code

cck105

12

133105

1

136122

3

136410

8

Each

58.0000

2

**

MS20426AD5-7

Purchased No

MS20426AD5-7

RIVET

Location

Loc Qty

Loc Code

ST311

58

101340

8

M132767

50

JAN 11 2016

DAS

6

9-89

BAS

27

9-89

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Work Order ID: 139975

139975

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

MS24694-S54

Purchased

No

Each

102.0000

2

MS24694-S54

SCREW

DAS

6

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST284

102

m133031

2

m133134

100

MS27039-1-21

Purchased

No

Each

396.0000

4

MS27039-1-21

Screw

DAS

6

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

over006

245

m127904

245

ST279

150

m127904

150

ST284

1

m126319

1

MS27039-1-20

Purchased

No

Each

190.0000

2

MS27039-1-20

Screw

DAS

6

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST284

190

124326

190

MS27039-1-19

Purchased

No

Each

134.0000

22

MS27039-1-19

Screw

DAS

6

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

4

m124326

4

ST280

130

m133134

130

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Work Order ID: 139975

139975

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

DAS
Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3717

Manufactured No

Each 7.0000

1

646 3717

Doubler

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

7

120633

7

646.3718

Manufactured No

Each 0.0000

2

646 3718

Custom Washer

646.3719

Manufactured No

Each 8.0000

2

646 3719

Doubler

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

8

120634

8

MS27039-1-10

Purchased No

Each 167.0000

2

MS27039-1-10

SCREW

DAS
27
9-89

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

50

m129541

50

ST280

73

m132677

73

ST285

3

m123522

2

m132640

1

DAS
6
9-89
JAN 08 2016

mf

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Work Order ID: 139975

139975

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-11A

Purchased

No

Each

154.0000

10

AN3-11A

Bolt

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

150

m133363

50

m133561

100

ST349

4

m133234

4

600.0990

Purchased

No

Each

19.0000

1

600 0990

Magnabond 6398 Part A

DAS
27
9-89

Location

Loc Qty

Loc Code

CA

12

M133800

12

PKG

7

M131589

7

600.0991

Purchased

No

Each

20.0000

1

600 0991

MAGNOBOND 6398 PART B

DAS
27
9-89

Location

Loc Qty

Loc Code

CA

12

m133800

12

PKG

8

m131589

8

2/11/2016

DAS
6
9-89

JAN 07 2016

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Work Order ID: 139975

139975

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

600.1012 Purchased No

Each 19.0000 1

DAS
6
9-89

600 1012

Sealant PR1425B2 (#654 sem)

06/12
exp date

DAS
27
9-89

Location

Loc Qty

Loc Code

cck017

18

m133515

8

m133800

8

m133380

2

6/1/2016

cck018

1

m131364

1

10/30/2015

600.0129 Purchased No

f 541.0000 8

DAS
6
9-89

600 0129

VHB TAPE 75935A651

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK095

541

m127920

325

m131311

216

600.1013 Purchased No

Each 875.0000 5

DAS
6
9-89

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK095

875

m131145

875

6/15/2016

646.3910 Manufactured No

Each 4.0000 4

DAS
6
9-89

646 3910

Shim

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK106

4

122951

4

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Work Order ID: 139975

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Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3911

Manufactured No

Each

66.0000

1

DAS
6
9-89

646 3911

Shim

DAS
27
9-89

Location

Loc Qty

Loc Code

cck104

18

126229

18

CCK106

48

126059

48

Each

36.0000

4

DAS
6
9-89

646.3912

Manufactured No

646 3912

Shim

DAS
27
9-89

Location

Loc Qty

Loc Code

cck023a

10

124501

10

CCK106

26

123143

26

Each

105.0000

1

DAS
6
9-89

646.3913

Manufactured No

646 3913

Shim

DAS
27
9-89

Location

Loc Qty

Loc Code

cck023aq

81

126060

81

CCK106

24

124108

24

DAS
6
9-89

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Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-12A

Purchased

No

Each

109.0000

2

DAS
6
9-89

AN3-12A

Bolt

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

5

m129682

5

ST349

104

m133064

16

m133234

88

Each

132.0000

**

MS27039-1-16

Purchased

No

MS27039-1-16

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST285

132

m130388

4

m131317

28

m132344

100

Each

3.0000

**

650.9201

Manufactured

No

650 9201

Eyelet Bracket Assembly

DAS
27
9-89

Location

Loc Qty

Loc Code

cck127

3

136204

3

Each

24.0000

**

AN44-5A

Purchased

No

AN44-5A

Eyebolt

DAS
27
9-89

Location

Loc Qty

Loc Code

ST339

24

m126193

4

m133134

8

m133790

12

DAS
6
9-89

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Work Order ID: 139975

139975

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

AN665-34R

Purchased

No

Each

42.0000

2

AN665-34R

Clevis

**

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST330

42

M130388

4

M133483

8

M133523

30

AN4C7A

Purchased

No

Each

82.0000

2

AN4C7A

BOLT

**

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

OVER002

20

m133523

20

ST340

20

m133363

20

ST345

42

m127363

22

m133790

20

NAS1149F0432P

Purchased

No

Each

704.0000

4

NAS1149F0432P

WASHER

**

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST262

534

M132551

34

M133709

500

st268

170

M128995

45

M132677

125

JAN 08 2016

Picklist Print

December 16, 2015 8:52:52 AM

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Work Order ID: 139975

139975

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

Each

3,335.000

2

MS21042L 4

Locknut

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

137

DAS

m133363

137

6

9-89

GA

49

m127813

49

ST260a

92

m130799

56

m132262

36

ST303

2924

m133769

2924

ST305

133

m128300

8

m130388

4

m130922

97

m132123

24

AN316C4R

Purchased

No

Each

89.0000

2

AN316C4R

NUT

DAS

6

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST331

89

m133234

43

m133523

46

MS21042-3

MS21042L3

Purchased

No

Each

18.0000

2

MS21042-3

Nut / use MS21042L3

DAS
27
9-89

Location

Loc Qty

Loc Code

ST304

18

M129682

18

DAS

6

9-89

JAN 07 2016

December 16, 2015 8:52:52 AM

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Page 19

Work Order ID: 139975

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

139975

646 4001

Start Date: 12/16/2015

Start Qty: 1.00

DAS
Required Date: 1/8/2016

Required Qty: 1.00

MS27039-08-13

Purchased

No

Each

344.0000

2

MS27039-08-13

Screw

**

DAS
27
9-89

Location

Loc Qty

Loc Code

ST277

340

124326

340

ST281

4

M130388

4

Each

33.0000

2

**

MS21042-08

MS21042L08

Purchased

No

MS21042-08

USE MS21042L08

DAS
27
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

Each

4,549.000

4

**

NAS1149FN832P

Purchased

No

NAS1149FN832P

Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

103

M133316

103

ST260a

2500

M133769

2500

ST262

1946

M133709

1946

DAS
6
9-89

JAN 07 2016

December 16, 2015 8:52:52 AM

Shop Packet Print

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APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 04731				SHEET 1 OF 2	
	DWG NO. 646.4000	REV: A	PREPARED BY J. SOTO	DATE: 11/04/2014	EFFECT ON DWG ☒ INC. ☐ UNINC.	
	DWG TITLE: AS350 CABLE CUTTERS KIT					
	APPROVED BY: ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF. NEXT ORDER		
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE	REASON: REVISED BOM. INCORPORATED ECN 03046 AND 03079.					

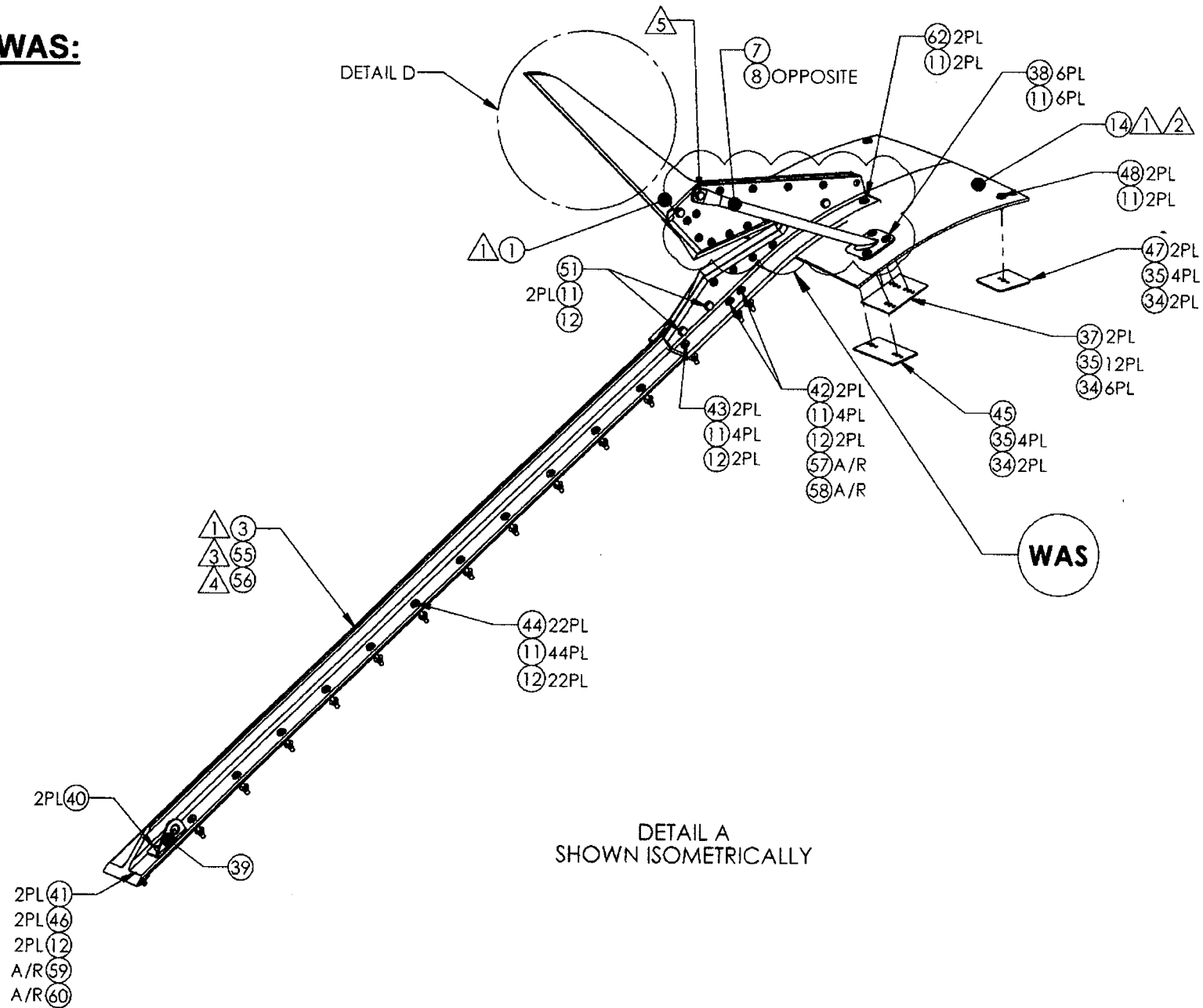
20151216

SH 139975

76	A	601.2764	4	4	WASHER	NAS1149FN832P	
75	A	601.2973	2	2	LOCKNUT	MS21042-08	
74	A	601.2988	2	2	SCREW	MS27039-0813	
73	A	601.2943	2	2	LOCKNUT	MS21042-3	
72	A	601.3128	2	2	NUT	AN316C4R	
71	A	601.3209	2	2	LOCKNUT	MS21042L4	
70	A	601.2638	4	4	WASHER	NAS1149F0432P	
69	A	601.2669	2	2	BOLT	AN4C7A	
68	A	601.3119	2	2	CLEVIS	AN665-34R	
67	A	601.3121	2	2	EYE BOLT	AN44-57	
66	A	650.9201	2	2	EYE BRACKET ASSY		
51	R	601.2926	10	10	BOLT	AN3-11A	
12	R	601.1624	53	61	LOCKNUT	MS21042L3	
11	R	601.1607	120	138	WASHER	NAS1149F0332P	
8	R	647.7703	2	2	STRUT ASSY		
7	R	647.0112	2	2	STRUT BRACKET		
F/N TC	PART NUMBER	.4003	.4001				
	QTY			DESCRIPTION	MATERIAL	SPECIFICATION	

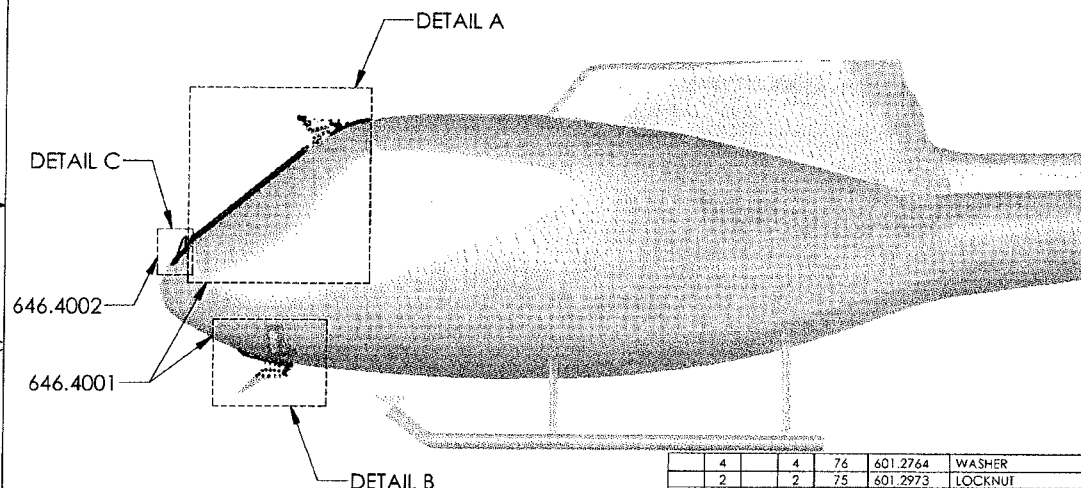
DOCUMENTS EFFECTED:	☐ MDL ☒ INSTALL INSTRUCTIONS ☒ ICA ☐ FMS ☒ BOM	CHANGE CATEGORY	DER REVIEW REQUIRED
		☐ MAJOR ☒ MINOR	☐ YES ☒ NO

SHEET 2 WAS:



NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR : MCMMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1



MATERIALS LISTED ON THE CATEGORY: ROCKET									
	4	4	76	601.2764	WASHER	NA51149FFH832 P			
	2	2	75	601.2973	LOCKNUT	MS21042-08			
	2	2	74	601.2998	SCREW	MS20739-0613			
	2	2	73	601.2943	LOCKNUT	MS21042-3			
	2	2	72	601.3128	NUT	AN316C-4R			
	2	2	71	601.3209	LOCKNUT	MS21042-4			
	4	4	70	601.2638	WASHER	NA51149FFH832 P			
	2	2	69	601.2667	BOLT	AN4C7A			
	2	2	68	601.3119	CLEVIS	AN665-34R			
	2	2	67	601.3121	EYE BOLT	AN4A-SA			
	2	2	66	650.920	EYE BRACKET ASSY	AN4A-SA			
REF	REF		65	647.5701	GPS MOUNT KIT				
		6	64	601.3151	WASHER	NA51149FFH832P			
		2	63	601.2911	SCREW	MS214494553			
	2	2	62	601.2637	SCREW	MS20739-1-16			
	2	2	61	601.2763	BOLT	AN3-12A			
	1	1	60	646.3913	SHIM				
	4	4	59	646.3912	SHIM				
	1	1	58	646.3911	SHIM				
	4	4	57	646.3910	SHIM				
	5	5	56	600.1013	PRIMER				
4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MATL		SPEC

	8 FT		8 FT	55	600.0129	VHB TAPE		
	1	1	1	54	600.1012	SEALANT		PR-142 CLASS B
	1		1	53	600.0991	MAGNABOND 6398 PART B		
	1		1	52	600.0990	MAGNABOND 6398 PART A		
	10		10	51	601.2826	BOLT		AN3-11A
		2		50	646.3814	WIPER BRACKET		
		2		49	601.2910	SCREW		MS270339-1-18
2			2	48	601.1365	SCREW		MS270339-1-10
2			2	47	646.3719	DOUBLER		
	2		2	46	646.3718	CUSTOM WASHER		
1			1	45	646.3717	DOUBLER		
	22	2	22	44	601.1948	SCREW		MS270339-1-19
	2		2	43	601.1952	SCREW		MS270339-1-20
	4		4	42	601.1956	SCREW		MS270339-1-21
	2		2	41	601.2829	SCREW		MS24694554
	2		2	40	601.2831	RIVET		MS20426A05-7
	1		1	39	646.3716	GAUGE BRACKET		
	6		6	38	601.1953	SCREW		MS270339-1-12
2			2	37	646.3715	STRUT DOUBLER		
	2		2	36	601.2824	BOLT		AN3-6A
36			36	35	601.2277	RIVET		CG28465-300
34			34	34	600.0795	NUTPLATE		MS21047-3
3			3	33	601.2565	RIVET		MS20470AD5-7
1			1	32	646.3813	STRUT BRACKET		
4			4	31	601.2822	BOLT		AN3-3A
2			2	30	646.3812	GUSSET BRACKET		
8			8	29	601.2564	RIVET		MS20470AD5-6
1			1	28	646.3714	GUSSET		
	1		1	27	646.3610	FILLER		
	1		1	26	601.2830	SCREW		MS24694555
	2		2	25	601.2825	BOLT		AH3-6A
	1		1	24	646.3811	RADIUS BLOCK		
	1		1	23	646.3712	CLIP		
	1		1	22	646.3711	CLIP		
8			8	21	601.2832	RIVET		MS20470AD5-5
14			14	20	601.2020	RIVET		CR5213-5.3
10			10	19	601.2823	BOLT		AN3-4A
	1		1	18	601.2827	BOLT		AN3-13A
	5		5	17	601.2912	SCREW		MS24694551
1			1	16	646.3713	GUSSET		
1			1	15	646.3210	SUPPORT		
1			1	14	646.3710	DOUBLER		
	1		1	13	646.3110	CHANNEL		
8	53	6	61	12	601.1624	LOCKNUT		MS21042L3
18	120	16	138	11	601.1607	WASHER		NAS114P0337F
		1		10	646.3410	LH WIPER DEFLECTOR		
		2		9	646.3411	RH WIPER DEFLECTOR		
	2		2	8	647.7703	STRUT ASSY		
	2		2	7	647.0112	STRUT BRACKET		
	1		1	6	646.3511	STRUT		
	1		1	5	646.3510	STRUT		
2			2	4	646.3810	BRACKET		
	1		1	3	646.2910	DEFLECTOR		
	1		1	2	646.3001	LOWER CUTTER ASSY		
	1		1	1	646.3301	UPPER CUTTER ASSY		
X					646.4004	FIXED PROVISIONS KIT		
	X				646.4003	CABLE CERTIFIED WIREKOP FIBER PROVISIONS		
		X			646.4002	AS350 WIPER DEFLECTOR KIT		
			X		646.4001	AS350 CABLE CUTTERS KIT		
-4004	-4003	4002	-4001	FIND #	PART #	DESCRIPTION	MATL.	SPEC.
QTY					PARTS LIST			
NEXT ASSY (S)					ORIGINAL DATE DOWNSIDE DRAWN BY: P. BRAWO CHECKED BY: P. BRAWO PRODUCTION APPROVAL DATE: 08-27-08 CONTRACT NO.			
					UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACES DECIMALS ± .005 1 PLACE DECIMALS ± .003 ALL OTHERS ± .001			
					AS350 CABLE CUTTERS KIT			
					SERIAL (CAGE CODE) (DOWNSIDE) (REV.)			
					B 07MAZ6 646.4000			
					SCALE NONE SHIPT LOF 4			

APICAL INDUSTRIES

2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

AS350 CABLE CUTTERS KIT

SIZE B	CAGE CODE 07M26	DWG NO 646.4000	REV. B
SCALE NONE		SHEET 1 OF 1	

DETAIL D

2 PL (7) — 
2 PL (74)
4 PL (75) 2 PL (51)
4 PL (76) 4 PL (11)
2 PL (12)

Diagram of the front suspension assembly showing components 2PL(40), 2 PL (41), 2 PL (12), 2 PL (46), A/R (59), A/R (60), and 39.

ORIGINAL DATE (MO-DA-YR) 08-27-08	
DRAWN BY S. HUFF	CHECKER P. BRAVO
DRAWING APPROVAL P. BRAVO	
CONTRACT No.	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS $\pm .01$
3 PLACE DECIMALS $\pm .005$
ANGLES $\pm 5^\circ$

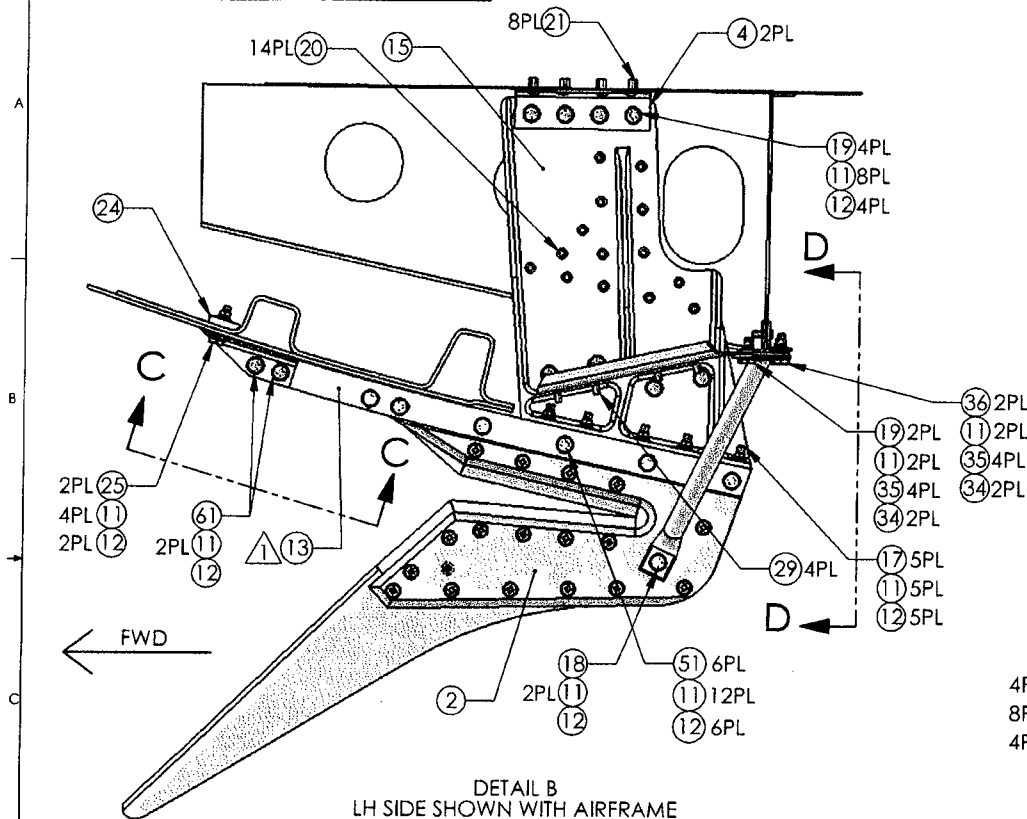
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

AS350 CABLE CUTTERS KIT

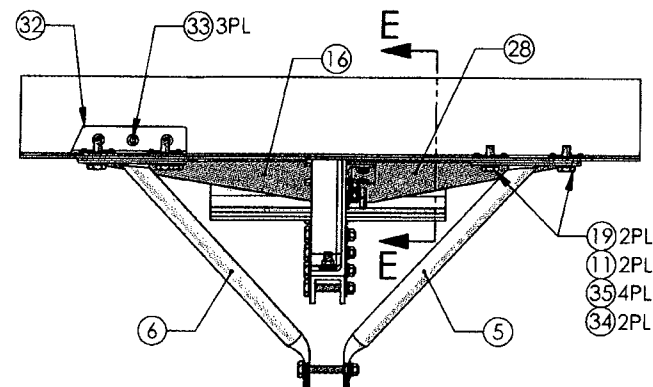
SIZE B	CAGE CODE 07MZ6	DWG. NO. 646.4000	REV. B
SCALE: NONE		SHEET 2 OF 4	

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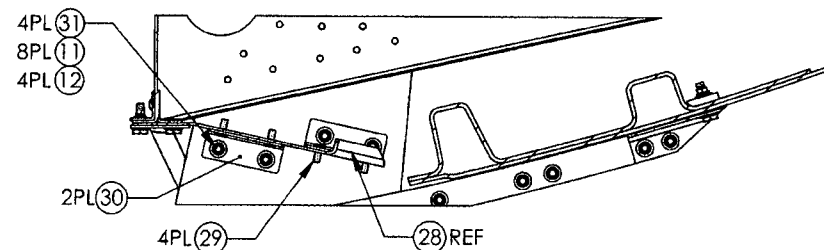
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



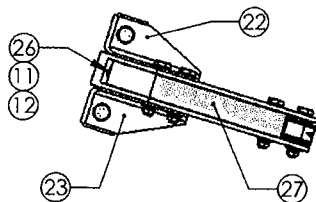
DETAIL B
LH SIDE SHOWN WITH AIRFRAME



SECTION D-D
CUTTER HIDDEN FOR CLARITY



SECTION E-E

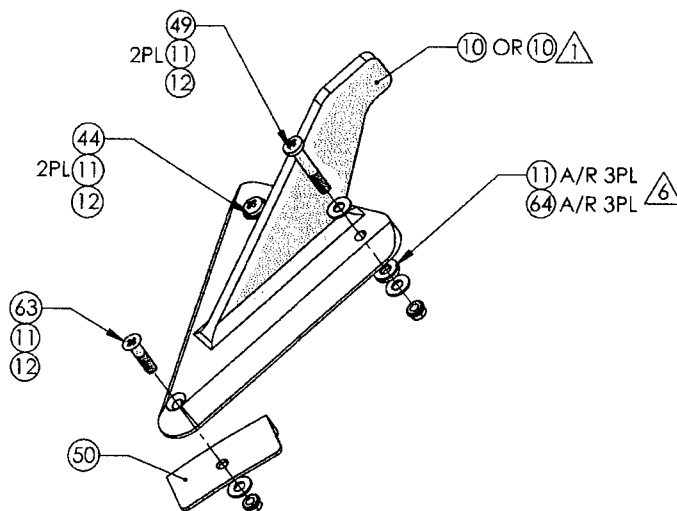


SECTION C-C

ORIGINAL DATE: 08-07-08 MODIFIED:		DRAWN BY: S. HLF CHECKED: P. BRAVO	
DRAWING APPROVAL: P. BRAVO DATE: 08-27-08		CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± 5°		SHEET: B SCALE: NONE	REV: B
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300		AS350 CABLE CUTTERS KIT DWG. NO. 646.4000	
		SHEET 3 OF 4	

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE 08-27-08		APICAL INDUSTRIES	
DRAWN BY S. HURF		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY P. BRAVO		AS350 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAVO		SCALE NONE	
CONTRACT NO.		SHEET 4 OF 4	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		REV B	07/12/16
		QWG NO 646.4000	REV B

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPRESS WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

NOTES:

1. AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.

2. INSTALL F/N 14 WITH F/N 52 & 53.

3. 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMMASTER-CARR P/N 75935A651.

4. 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.

5. REUSE FASTENERS FROM F/N 1.

6. USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.

7. AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.

8. INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.

9. NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 42 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

CAS
27
9-69

	5		5		5	78	601.3875	SCREW		
	1		1		1	77	646.9410	SHIM		
			4		4	76	601.2764	WASHER	NA51149F033P	
			2		2	75	601.2973	LOCKNUT	MS21042-08	
			2		2	74	601.2988	SCREW	MS27039-0813	
			2		2	73	601.2943	LOCKNUT	MS21042-3	
			2		2	72	601.3128	NUT	AN316C4R	
			2		2	71	601.3209	LOCKNUT	MS21042L4	
			4		4	70	601.2638	WASHER	NA51149F0432P	
			2		2	69	601.2669	BOLT	AN4C7A	
			2		2	68	601.3119	CLEVIS	AN665-34R	
			2		2	67	601.3121	EYE BOLT	AN44-5A	
			2		2	66	650.9201	EYE BRACKET ASSY		
		REF	REF		REF	65	647.5701	GPS MOUNT KIT		
					2	64	601.3151	WASHER	NA51149F0363P	
				2		63	601.2911	SCREW	MS24694553	
			24		24	62	601.2637	SCREW	MS27039-1-16	
	2		2		2	61	601.2763	BOLT	AN3-12A	
			1		1	60	646.3913	SHIM		
			4		4	59	646.3912	SHIM		
			1		1	58	646.3911	SHIM		
			4		4	57	646.3910	SHIM		
			5		5	56	600.1013	PRIMER		
			8 FT		8 FT	55	600.0129	VHB TAPE		
			1	1	1	54	600.1012	SEALANT	PR-1425 CLASS B	
			1		1	53	600.0991	MAGNOBOND 6398 PART B		
			1		1	52	600.0990	MAGNOBOND 6398 PART A		
	6		10		10	51	601.2826	BOLT	AN3-11A	
					2	50	646.3814	WIPER BRACKET		
					2	49	601.2910	SCREW	MS27039-1-18	
		2			2	48	601.1365	SCREW	MS27039-1-10	
		2			2	47	646.3719	DOUBLER		
			2		2	46	646.3718	CUSTOM WASHER		
		1			1	45	646.3717	DOUBLER		
			22	2	22	44	601.1948	SCREW	MS27039-1-19	
			2		2	43	601.1952	SCREW	MS27039-1-20	
			4		4	42	601.1956	SCREW	MS27039-1-21	
4006	4005	4004	4003	4002	4001	FINO #	PART #	DESCRIPTION	MATL	SPEC.

REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECN 021191, 0231, 027111 & 02745	03/08/2010	P. BRAVO
B	INCORPORATED ECN 02046, 02077 & 04731	11/04/2014	P. BRAVO
C	INCORPORATED ECN 05098	09/09/2015	P. BRAVO

		2		2	41	601.2829	SCREW	MS24694554		
		2		2	40	601.2831	RIVET	MS20436ADS-7		
		1		1	39	646.3716	GAUGE BRACKET			
		6		6	38	601.1953	SCREW	MS27039-1-12		
	2			2	37	646.3715	STRUT DOUBLER			
	2	2		2	36	601.2824	BOLT	AN3-5A		
12	36			36	35	601.2277	RIVET	CC#mss-3-07		
6	18			18	34	600.0795	NUTPLATE	MS21047-3		
3	3			3	33	601.2565	RIVET	MS20470ADS-7		
1	1			1	32	646.3813	STRUT BRACKET			
4	4			4	31	601.2822	BOLT	AN3-3A		
2	2			2	30	646.3812	GUSSET BRACKET			
8	8			8	29	601.2564	RIVET	MS20470ADS-6		
1	1			1	28	646.3714	GUSSET			
	1	1		1	27	646.3610	FILLER			
	3	3		3	26	601.2830	SCREW	MS24694555		
	2	2		2	25	601.2825	BOLT	AN3-6A		
	1	1		1	24	646.3811	RADIUS BLOCK			
	1	1		1	23	646.3712	CLIP			
	1	1		1	22	646.3711	CLIP			
8	8			8	21	601.2832	RIVET	MS20470ADS-5-5		
14	14			14	20	601.2020	RIVET	CR3213-5-3		
4	6	4	6	10	19	601.2823	BOLT	AN3-4A		
	1	1	1	1	18	601.2827	BOLT	AN3-13A		
	5	5	5	5	17	601.2912	SCREW	MS24694551		
1	1	1		1	16	646.3713	GUSSET			
1	1	1		1	15	646.3210	SUPPORT			
		1		1	14	646.3710	DOUBLER			
	1	1		1	13	646.3110	CHANNEL			
14	10	8	53	6	61	12	601.1624	LOCKNUT	MS21042L3	
16	32	18	120	16	144	11	601.1607	WASHER	MS1149FD332P	
				1	10		646.3410	LH WIPER DEFLECTOR		
				1	9		646.3411	RH WIPER DEFLECTOR		
		2		2	8		647.7703	STRUT ASSY		
		2		2	7		647.0112	STRUT BRACKET		
	1	1		1	6		646.3511	STRUT		
	1	1		1	5		646.3510	STRUT		
2		2		2	4		646.3810	BRACKET		
			1	1	3		646.2910	DEFLECTOR		
	1	1		1	2		646.3001	LOWER CUTTER ASSY		
		1		1	1		646.3301	UPPER CUTTER ASSY		
X							646.4006	LOWER CUTTER FIXED PROVISIONS		
	X						646.4005	LOWER CUTTER REMOVABLE PROVISIONS		
		X					646.4004	FIXED PROVISIONS KIT		
			X				646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS		
				X			646.4002	AS350 WIPER DEFLECTOR KIT		
					X		646.4001	AS350 CABLE CUTTERS KIT		
4006	4005	4004	4003	4002	4001	FINO #	PART #	DESCRIPTION	MATL	SPEC.

QTY		PARTS LIST	
NEXT ASSY (S)		ORIGINAL DATE: 08/21/08	
		DRAWN BY: J. HUFF	
		CHECKED BY: P. BRAVO	
		DRAWING APPROVAL: P. BRAVO	
		DESIGNER: J. HUFF	
		CONTRACT NO.	
		UNLESS OTHERWISE SPECIFIED	
		DIMENSIONS ARE IN INCHES	
		TOLERANCES ARE:	
		2 PLACE DECIMALS .010	
		3 PLACE DECIMALS .005	
		ANGLES .5°	
		SHEET 1 OF 5	

DART 3030 ENTERPRISE CT., SUITE A
VISTA, CA, 92081
(760)-724-5300

AS350 CABLE CUTTERS KIT

SCALE: NONE

SHEET 1 OF 5

Melanie Fauteux

From: Caitlin Crooks
Sent: Friday, January 15, 2016 2:25 PM
To: Melanie Fauteux
Subject: FW: 646.9410 ORDERS SHIPPING TODAY

From: Chacon, Julian [mailto:julian.chacon.external@airbus.com]
Sent: Friday, January 15, 2016 2:24 PM
To: Jackson Lin <jlin@dartaero.com>
Cc: Caitlin Crooks <ccrooks@dartaero.com>
Subject: RE: 646.9410 ORDERS SHIPPING TODAY

Hello Jackson, it's Ok. Please confirm chipping date for the shims as soon as you can.

Regards



Julián Chacón

Logistic & Procurement Responsible
Airbus Helicopters México S.A. de C.V.
Phone: (+52 55) 57 16 75 55 Ext. 305
julian.chacon.external@airbus.com

Airbus AOG assistance:

Phone: (+52 1) 55 54 36 07 32
Customer.assistance-mx@airbus.com

From: Jackson Lin [mailto:jlin@dartaero.com]
Sent: viernes, 15 de enero de 2016 09:48 a.m.
To: Chacon, Julian
Cc: Caitlin Crooks
Subject: FW: 646.9410 ORDERS SHIPPING TODAY
Importance: High

Hi Julian,

I got the following notification about your PO for the 3 cable cutter systems:

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

For the following orders THAT ARE SCHEDULED TO SHIP TODAY

*****Please confirm ASAP IF WE CAN SHIP TODAY WITH OUT THE SHIM. THE SHIMS WILL SHIP AT A LATER DATE (4-5 WEEKS)

So124254 Airbus Helicopters Mexico (PO MX-4510004382)

I think that the best scenario here is as follows:

1. Sales Account Manager advise our customer that:
 - The kits are shipping as planned.
 - Shipment will be partial as shims are missing from the kits.
 - We intend to complete their kits by providing them with the shims in about 4-5 weeks, once we have them in stock.
 - If they are installing the kits within the next 3-4 weeks and do need the shims, DART Tech Support ON/CA can fully support them with the installation.
2. Ship the kits tomorrow as planned (unless the SAM gets back to us stating we can ship the kits at a later date).

We just wanted you to be aware that the shims will be shipped at a later date. I was informed that in most cases, the customer can make its own shims so if it was urgent for you to install, your team could do it themselves and DART technical support will help you via telephone/email. For information about the shims, see the attached Installation Instructions, page 12 and 13.

So unless you have an objection and prefer to wait for the shim before we ship, DART will ship the Cable Cutter Kits today without the shims and the shims will be sent when we receive them in 4 or 5 weeks.

Regards,
Jackson

JACKSON LIN

Manager, Business Development and Strategic Accounts

DART AEROSPACE

T 1 613 632-5200 > 275

C 1 514 850-7484

Skype: dart-jlin

1 800 556-4166

www.dartaerospace.com



DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							